

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please cancel claims 1-15 without prejudice or disclaimer.

Please add new claims 16-27 as follows:

-- 16. (New) A method of connecting calls through a radio access network to a mobile radio in communication with a first core network on a first call, comprising the steps of:

AI  
receiving the first call from a first core network connection;  
delivering the first call to the mobile radio on a radio call channel;  
receiving a page request for the mobile radio from a second core network;  
delivering the page request to the mobile radio while continuing to maintain the first call on the radio call channel;  
receiving a page response from the mobile radio on the radio call channel;  
establishing a second core network connection to the second core network; and  
delivering the page response to the second core network on the second core network connection.

17. (New) A method according to claim 16, further including the steps of:  
receiving a second call from the second core network,  
multiplexing the first call from the first core network with the second call from the second core network,  
delivering the multiplexed first and second calls to the mobile radio on the radio call channel.

18. (New) A method according to claim 17, wherein after the step of delivering the multiplexed first and second calls, the method further includes the steps of:  
reviewing information pertaining to the first and second calls from the mobile radio over the radio call channel, and

directing the information pertaining to the first call to the first core network and the information pertaining to the second call to the second core network.

19. (New) A method according to claim 16, wherein the first and second core networks are the same core network.

20. (New) A method according to claim 16, wherein the first and second core networks are different.

21. (New) A method according to claim 16, wherein the page response is delivered on a signaling portion of the radio call channel.

22. (New) A radio access network, comprising:

a plurality of network links to be used to establish call communications with a plurality of core networks,

a plurality of radio links to be used to establish call communications with one or more mobile stations,

a radio access network (RAN) node configured to (1) establish a first call connection between a first core network and a mobile station using a first network link and a first radio link, (2) receive a page for the mobile station, and (3) establish a second call connection to the mobile station using a second network link and the first radio link,

a multiplexer for combining call communications from the first and second core networks for the mobile station onto the first radio link for communication to the mobile station and providing the combined call communications for delivery to the mobile station on the first radio link.

23. (New) A radio access network according to claim 22, wherein the multiplexer is initiated by a page response on the first radio link from the single mobile station.

24. (New) A radio access network according to claim 22, wherein the plurality of network links and the plurality of mobile station links include traffic channels and signal channels, and the multiplexer is configured to combine traffic channels from the first and

second core networks and to combine signal channels from the first and second core networks.

25. (New) A radio access network according to claim 22, wherein:  
the multiplexer is configured to route corresponding communications from the mobile station received on the first radio link to the first and second core networks.

26. (New) A system for connecting a second call to a mobile radio engaged in a first call, comprising:

a first core network,

a second core network,

a radio access network in communication with the first core network via a first core network channel and with the second core network via a second core network channel and,

a plurality of mobile terminals in communication with the radio access network, one of the mobile terminals being configured to engage in the first call with the first core network via a mobile terminal call channel and the first core network channel,

wherein the radio access network includes a multiplexer for receiving via the mobile terminal call channel a page response signal from the first mobile terminal, routing the page response signal to the second core network via the second core network channel, and routing the first call from the mobile terminal call channel to the first core network via the first core network channel.

27. (New) A system according to claim 26, wherein the first call is communicated between the radio access network and the first mobile terminal via first traffic and control channels of the mobile terminal call channel, and

wherein after the page response, the multiplexer is configured to consolidate traffic and control information for the first and second calls to the one mobile terminal via the first traffic and control channels. --